EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	5480	(benzothiazole)".CLM"	US-PGPUB	OR	ON	2006/10/26 13:50
L2	5294	l1 and (acetic acid)".CLM"	US-PGPUB	OR	ON	2006/10/26 13:50
L3	1829	l2 and (carbamoyl)".CLM"	US-PGPUB	OR	ON	2006/10/26 13:51
L4	1170	l3 and (phenoxy)".CLM"	US-PGPUB	OR	ON	2006/10/26 13:51
S1	486	(548/180).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/10/26 13:36
S2	1051	(514/367).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/10/26 13:35
S3	2	("6420426").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/10/26 13:50

```
Connecting via Winsock to STN


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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2          "Ask CAS" for self-help around the clock
 NEWS  3  AUG 09  INSPEC enhanced with 1898-1968 archive
 NEWS  4  AUG 28  ADISCTI Reloaded and Enhanced
 NEWS  5  AUG 30  CA(SM)/CAplus(SM) Austrian patent law changes
 NEWS  6  SEP 11  CA/CAplus enhanced with more pre-1907 records
 NEWS  7  SEP 21  CA/CAplus fields enhanced with simultaneous left and right
                  truncation
 NEWS  8  SEP 25  CA(SM)/CAplus(SM) display of CA Lexicon enhanced
 NEWS  9  SEP 25  CAS REGISTRY(SM) no longer includes Concord 3D coordinates
 NEWS 10  SEP 25  CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
 NEWS 11  SEP 28  CEABA-VTB classification code fields reloaded with new
                  classification scheme
 NEWS 12  OCT 19  LOGOFF HOLD duration extended to 120 minutes
 NEWS 13  OCT 19  E-mail format enhanced
 NEWS 14  OCT 23  Option to turn off MARPAT highlighting enhancements available
 NEWS 15  OCT 23  CAS Registry Number crossover limit increased to 300,000 in
                  multiple databases
 NEWS 16  OCT 23  The Derwent World Patents Index suite of databases on STN
                  has been enhanced and reloaded

 NEWS EXPRESS  JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items
 NEWS IPC8     For general information regarding STN implementation of IPC 8
 NEWS X25      X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that
specific topic.

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* * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:05:43 ON 26 OCT 2006

=> fil reg
COST IN U.S. DOLLARS                            SINCE FILE     TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 0.21       0.21

FILE 'REGISTRY' ENTERED AT 12:06:12 ON 26 OCT 2006
```

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 25 OCT 2006 HIGHEST RN 911284-77-0
DICTIONARY FILE UPDATES: 25 OCT 2006 HIGHEST RN 911284-77-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

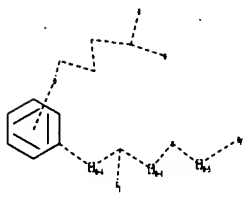
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

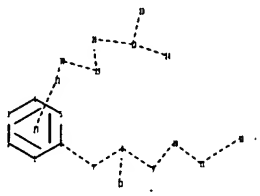
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\QUERIES\10662135.str





chain nodes :
7 8 9 10 11 13 18 21 22 23 24 28 29 30
ring nodes :
1 2 3 4 5 6
chain bonds :
6-7 7-8 8-9 8-13 9-10 10-11 11-18 21-30 22-24 22-23 22-28 28-29 29-30
ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
6-7 7-8 8-9 8-13 9-10 10-11 11-18 21-30 22-24 22-23 22-28 28-29 29-30
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

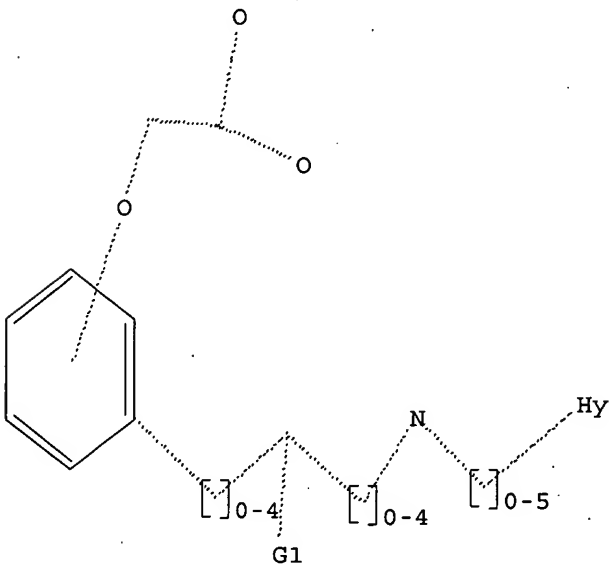
G1:O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 13:CLASS 18:Atom 21:CLASS 22:CLASS 23:CLASS 24:CLASS 27:Atom
28:CLASS 29:CLASS 30:CLASS
Generic attributes :
18:
Number of Carbon Atoms : 7 or more
Number of Hetero Atoms : 2 or more
Type of Ring System : Polycyclic

Element Count :
Node 18: Limited
O,O0
S,S1
N,N1
C,C7

L1 STRUCTURE UPLOADED

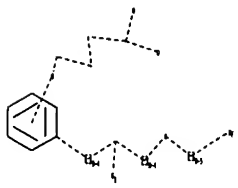
=> d
L1 HAS NO ANSWERS
L1 STR

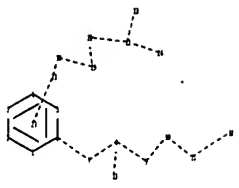


G1 O,S,N

Structure attributes must be viewed using STN Express query preparation.

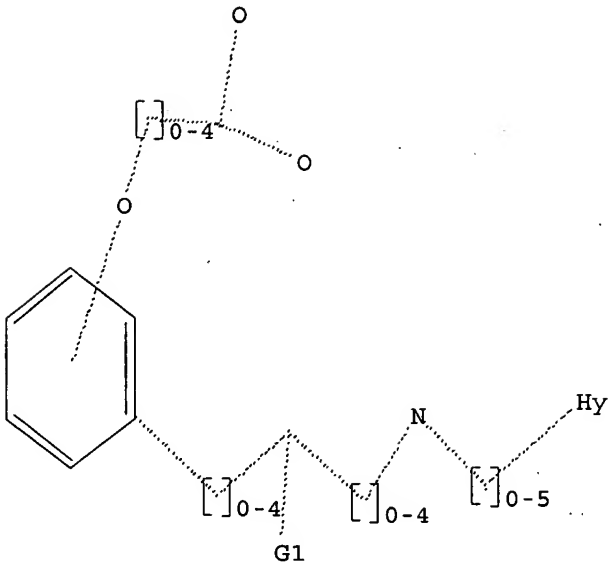
```
=> s l1
SAMPLE SEARCH INITIATED 12:08:10 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    37169 TO ITERATE

  5.4% PROCESSED     2000 ITERATIONS                                0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       731861 TO   754899
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 12:08:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   741560 TO ITERATE

 98.8% PROCESSED   732431 ITERATIONS                             103 ANSWERS

100.0% PROCESSED   741560 ITERATIONS                             103 ANSWERS
SEARCH TIME: 00.00.18

L3          103 SEA SSS FUL L1

=>
Uploading C:\Program Files\Stnexp\Queries\QUERIES\10662135.str
```





```
chain nodes :
7  8  9  10  11  13  18  21  22  23  24  28  29  30
ring nodes :
1  2  3  4  5  6
```

```
chain bonds :
6-7  7-8  8-9  8-13  9-10  10-11  11-18  21-30  22-24  22-23  22-28  28-29  29-30
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6
exact/norm bonds :
6-7  7-8  8-9  8-13  9-10  10-11  11-18  21-30  22-24  22-23  22-28  28-29  29-30
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6
isolated ring systems :
containing 1 :


G1:O,S,N

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  8:CLASS  9:CLASS  10:CLASS
 11:CLASS  13:CLASS  18:Atom  21:CLASS  22:CLASS  23:CLASS  24:CLASS  27:Atom
28:CLASS  29:CLASS  30:CLASS
Generic attributes :
18:
Number of Carbon Atoms : 7 or more
Number of Hetero Atoms : 2 or more
Type of Ring System    : Polycyclic

Element Count :
Node 18: Limited
    O,O0
    S,S1
    N,N1
    C,C7




L4      STRUCTURE UPLOADED

=>
=> d
L4 HAS NO ANSWERS
L4              STR
```

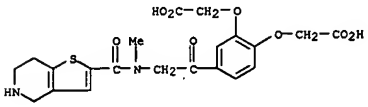


G1 O,S,N

Structure attributes must be viewed using STN Express query preparation.

```
=> s l4
SAMPLE SEARCH INITIATED 12:28:06 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    89058 TO ITERATE

  2.2% PROCESSED     2000 ITERATIONS                                0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **INCOMPLETE**
                        BATCH   **INCOMPLETE**
PROJECTED ITERATIONS:      1763435 TO  1798885
PROJECTED ANSWERS:               0 TO        0

L5             0 SEA SSS SAM L4

=> d his

     (FILE 'HOME' ENTERED AT 12:05:43 ON 26 OCT 2006)

     FILE 'REGISTRY' ENTERED AT 12:06:12 ON 26 OCT 2006
L1               STRUCTURE UPLOADED
L2             0 S L1
L3           103 S L1 FULL
L4               STRUCTURE UPLOADED
L5             0 S L4

=> s l3 and caplus/lc
      52481958 CAPLUS/LC
L6           85 L3 AND CAPLUS/LC

=> s l3 not l6
L7           18 L3 NOT L6

=> d l7 18
```

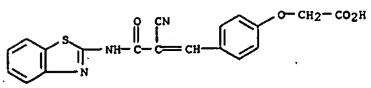
L7 ANSWER 18 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 165948-81-2 REGISTRY
ED Entered STN: 09 Aug 1995
CN Acetic acid, 2,2'-[[4-[[(methyl[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis- (9CI) (CA INDEX NAME)
MF C21 H22 N2 O8 S
CI COM
SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

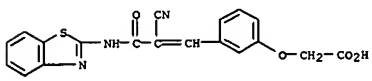
=> d l7 1-18

L7 ANSWER 1 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 865428-58-6 REGISTRY
ED Entered STN: 18 Oct 2005
CN Acetic acid, [4-[3-(2-benzothiazolylamino)-2-cyano-3-oxo-1-propenyl]phenoxy]- (9CI) (CA INDEX NAME)
MF C19 H13 N3 O4 S
SR Chemical Library
Supplier: TimTec, Inc.
LC STN Files: CHEMCATS



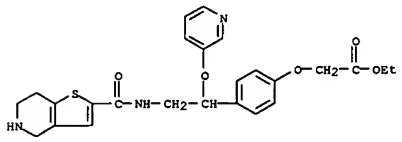
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 ANSWER 2 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 865428-56-4 REGISTRY
ED Entered STN: 18 Oct 2005
CN Acetic acid, [3-[3-(2-benzothiazolylamino)-2-cyano-3-oxo-1-propenyl]phenoxy]- (9CI) (CA INDEX NAME)
MF C19 H13 N3 O4 S
SR Chemical Library
Supplier: TimTec, Inc.
LC STN Files: CHEMCATS



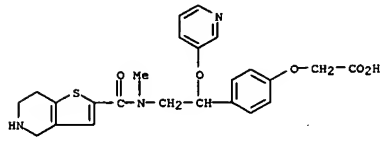
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 ANSWER 3 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 766490-01-1 REGISTRY
ED Entered STN: 21 Oct 2004
CN Acetic acid, [4-[1-(3-pyridinyloxy)-2-[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]ethyl]phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)
MF C25 H27 N3 O5 S
CI COM
SR CA



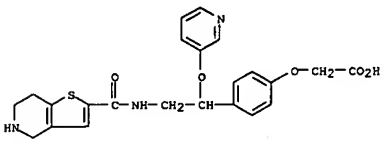
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 ANSWER 4 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 197237-52-8 REGISTRY
ED Entered STN: 13 Nov 1997
CN Acetic acid, [4-[2-[methyl[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]-1-(3-pyridinyloxy)ethyl]phenoxy]- (9CI) (CA INDEX NAME)
MF C24 H25 N3 O5 S
CI COM
SR CA



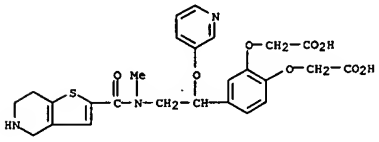
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 ANSWER 5 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 197237-42-6 REGISTRY
ED Entered STN: 13 Nov 1997
CN Acetic acid, [4-[1-(3-pyridinyloxy)-2-[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]ethyl]phenoxy]- (9CI) (CA INDEX NAME)
MF C23 H23 N3 O5 S
CI COM
SR CA



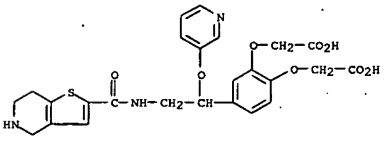
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 ANSWER 6 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 197237-40-4 REGISTRY
ED Entered STN: 13 Nov 1997
CN Acetic acid, 2,2'-[[4-[1-(3-pyridinyloxy)-2-[methyl[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]ethyl]-1,2-phenylene]bis(oxy)]bis- (9CI) (CA INDEX NAME)
MF C26 H27 N3 O8 S
CI COM
SR CA



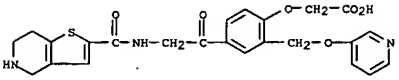
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 ANSWER 7 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 197237-38-0 REGISTRY
ED Entered STN: 13 Nov 1997
CN Acetic acid, 2,2'-[[4-[1-(3-pyridinyloxy)-2-[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]ethyl]-1,2-phenylene]bis(oxy)]bis- (9CI) (CA INDEX NAME)
MF C25 H25 N3 O8 S
CI COM
SR CA



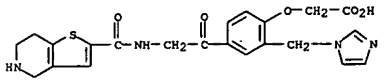
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 ANSWER 8 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 197237-36-8 REGISTRY
ED Entered STN: 13 Nov 1997
CN Acetic acid, [2-[(3-pyridinyloxy)methyl]-4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]- (9CI) (CA INDEX NAME)
MF C24 H23 N3 O6 S
CI COM
SR CA



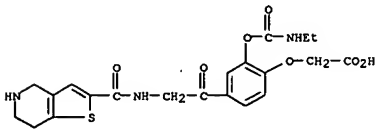
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 ANSWER 9 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 197237-34-6 REGISTRY
ED Entered STN: 13 Nov 1997
CN Acetic acid, [2-(1H-imidazol-1-ylmethyl)-4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl]carbonyl]amino]acetyl]phenoxy]- (9CI) (CA INDEX NAME)
MF C22 H22 N4 O5 S
CI COM
SR CA



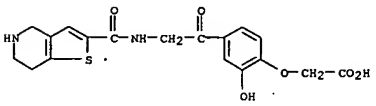
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 ANSWER 10 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 165949-36-0 REGISTRY
ED Entered STN: 09 Aug 1995
CN Acetic acid, [2-[[(ethylamino)carbonyl]oxy]-4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]- (9CI) (CA INDEX NAME)
MF C21 H23 N3 O7 S
CI COM
SR CA



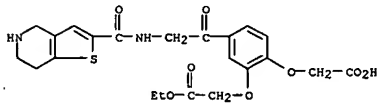
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 ANSWER 11 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 165949-34-8 REGISTRY
ED Entered STN: 09 Aug 1995
CN Acetic acid, [2-hydroxy-4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]- (9CI) (CA INDEX NAME)
MF C18 H18 N2 O6 S
CI COM
SR CA



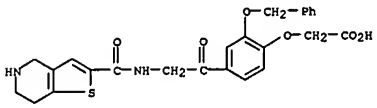
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 ANSWER 12 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 165949-31-5 REGISTRY
ED Entered STN: 09 Aug 1995
CN Acetic acid, [2-(carboxymethoxy)-5-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]-, 1-ethyl ester (9CI) (CA INDEX NAME)
MF C22 H24 N2 O8 S
CI COM
SR CA



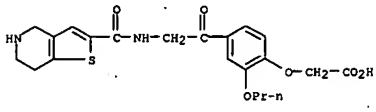
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 ANSWER 13 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 165949-29-1 REGISTRY
ED Entered STN: 09 Aug 1995
CN Acetic acid, [2-(phenylmethoxy)-4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]- (9CI) (CA INDEX NAME)
MF C25 H24 N2 O6 S
CI COM
SR CA



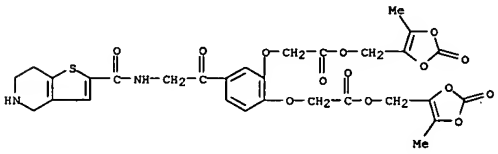
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 ANSWER 14 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 165949-27-9 REGISTRY
ED Entered STN: 09 Aug 1995
CN Acetic acid, [2-propoxy-4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]- (9CI) (CA INDEX NAME)
MF C21 H24 N2 O6 S
CI COM
SR CA



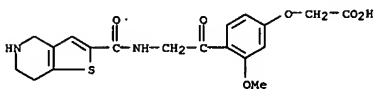
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 ANSWER 15 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 165949-13-3 REGISTRY
ED Entered STN: 09 Aug 1995
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis-, bis[(5-methyl-2-oxo-1,3-dioxol-4-yl)methyl] ester (9CI) (CA INDEX NAME)
MF C30 H28 N2 O14 S
CI COM
SR CA



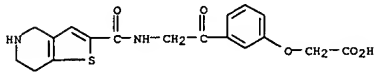
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 ANSWER 16 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 165948-95-8 REGISTRY
ED Entered STN: 09 Aug 1995
CN Acetic acid, [3-methoxy-4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]- (9CI) (CA INDEX NAME)
MF C19 H20 N2 O6 S
CI COM
SR CA



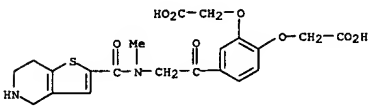
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 ANSWER 17 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 165948-91-4 REGISTRY
ED Entered STN: 09 Aug 1995
CN Acetic acid, [3-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]- (9CI) (CA INDEX NAME)
MF C18 H18 N2 O5 S
CI COM
SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 ANSWER 18 OF 18 REGISTRY COPYRIGHT 2006 ACS on STN
RN 165948-81-2 REGISTRY
ED Entered STN: 09 Aug 1995
CN Acetic acid, 2,2'-[[4-[[methyl[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis- (9CI) (CA INDEX NAME)
MF C21 H22 N2 O8 S
CI COM
SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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FULL ESTIMATED COST                                       224.52     224.73

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     (FILE 'HOME' ENTERED AT 12:05:43 ON 26 OCT 2006)

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L2               0 S L1
L3             103 S L1 FULL
L4             STRUCTURE UPLOADED
L5               0 S L4
L6              85 S L3 AND CAPLUS/LC
L7              18 S L3 NOT L6

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L8            15 L6

=> d ibib abs hitstr 1-15
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L8 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:1021642 CAPLUS
DOCUMENT NUMBER: 143:311996
TITLE: Methods for inhibiting platelet activation and aggregation, and therapeutic uses for conditions or surgical procedures that may result in unwanted platelet aggregation
INVENTOR(S): Porter, Stephen R.; Flaharty, Kristen K.; Tcheng, James E.; Ferkany, John W.
PATENT ASSIGNEE(S): Vddi Pharmaceuticals, USA
SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005087266	A1	20050922	WO 2005-US7440	20050307

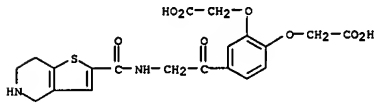
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2004-550792P P 20040305

AB The invention features methods for preventing platelet activation and aggregation and for treating individuals suffering from conditions or undergoing procedures that may result in unwanted platelet aggregation. The methods are based on the i.v., s.c., or transdermal administration of a platelet activation or aggregation inhibitor, e.g., xemilofiban, followed by oral administration of the same or a different platelet activation or aggregation inhibitor. The treatment may commence prior to a medical or surgical procedure or after the outbreak of an adverse medical condition, either of which results in the activation of platelets that may lead to thrombus formation, and may continue thereafter.

IT 165948-72-1, ME 3277
RL: ANT (Analyte); ANST (Analytical study)
(combination therapy for inhibition of platelet aggregation)

RN 165948-72-1 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis- (9CI) (CA INDEX NAME)



L8 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

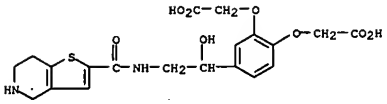
L8 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:352316 CAPLUS
DOCUMENT NUMBER: 143:109373
TITLE: Lack of Improvement of Oral Absorption of ME3277 by Prodrug Formation Is Ascribed to the Intestinal Efflux Mediated by Breast Cancer Resistant Protein (BCRP/ABCG2)
AUTHOR(S): Kondo, Chihiro; Onuki, Reiko; Kusuhara, Hiroyuki; Suzuki, Hiroshi; Suzuki, Michiko; Okudaira, Noriko; Kojima, Maho; Ishiwata, Kazuya; Jonker, Johan W.; Sugiyama, Yuichi
CORPORATE SOURCE: Graduate School of Pharmaceutical Sciences, The University of Tokyo, Tokyo, Hongo, Bunkyo-ku, 113-0033, Japan
SOURCE: Pharmaceutical Research (2005), 22(4), 613-618
CODEN: PHREEB; ISSN: 0724-8741
PUBLISHER: Springer
DOCUMENT TYPE: Journal
LANGUAGE: English

AB ME3229, an ester-type prodrug of a hydrophilic glycoprotein IIb/IIIa antagonist (ME3277), failed to show improved oral absorption. Okudaira et al. (J. Pharmacol. Exp. Ther. 294. 580-587, 2000) provided a piece of evidence that this is ascribed to an efflux system, distinct from P-gp and MRP2, that extrudes ME3277 formed from ME3229 in the intestinal epithelial cells. The aim of the present study is to examine the involvement of breast cancer resistant protein (BCRP/ABCG2) as a cause of low oral absorption of ME3229. The transport activity of ME3277 in the presence and absence of ATP was determined using a rapid filtration method with the membrane vesicles prepared from LLC-PK1 cells expressing BCRP. The plasma concns. of ME3229 and its metabolites were compared between Bcrp1-/- mice and wild-type mice after a single-pass perfusion of small intestine with ME3229. The ATP-dependent uptake of ME3277 was greater in BCRP-expressing membrane vesicles than that in the control vesicles. Furthermore, it was found that after intestinal perfusion with ME3229 for 60 min, the plasma concns. of ME3277 and PM-5, a metabolite of ME3229, increased 2-fold and 3-fold, resp., in Bcrp1 knockout mice. It is possible that BCRP acts synergistically with intestinal carboxylesterases. These results suggest that Bcrp1 plays an important role in the intestinal efflux of ME3277 and, probably, PM-10 and PM-11, metabolites of ME3229, and limits its BA after oral administration of ME3229.

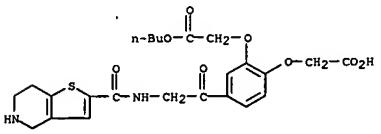
IT 165949-19-9 207463-37-4 207463-42-1
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(lack of improvement of oral absorption of ME3277 by prodrug formation is ascribed to intestinal efflux mediated by breast cancer resistant protein BCRP/ABCG2)

RN 165949-19-9 CAPLUS
CN Acetic acid, 2,2'-[[4-[1-hydroxy-2-[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]ethyl]-1,2-phenylene]bis(oxy)]bis- (9CI) (CA INDEX NAME)

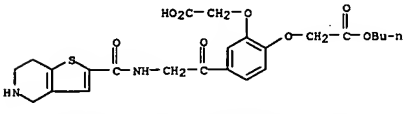
L8 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 207463-37-4 CAPLUS
CN Acetic acid, [2-(2-butoxy-2-oxoethoxy)-4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]- (9CI) (CA INDEX NAME)



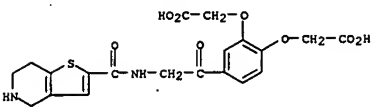
RN 207463-42-1 CAPLUS
CN Acetic acid, [2-(2-butoxy-2-oxoethoxy)-5-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]- (9CI) (CA INDEX NAME)



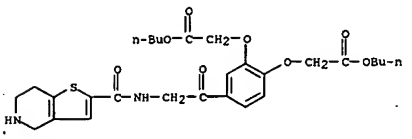
IT 165948-72-1, ME3277 165949-40-6, ME3229
RL: PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(lack of improvement of oral absorption of ME3277 by prodrug formation is ascribed to intestinal efflux mediated by breast cancer resistant protein BCRP/ABCG2)

RN 165948-72-1 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis- (9CI) (CA INDEX NAME)

L8 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 165949-40-6 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis-, dibutyl ester (9CI)
(CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS
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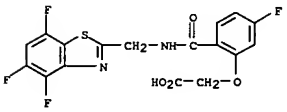
L8 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
benzothiazolyl)methyl]amino]carbonyl]phenoxy]- (9CI) (CA INDEX NAME)



RN 314297-80-8 CAPLUS
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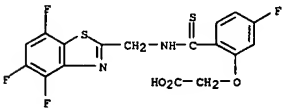
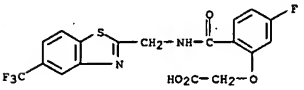
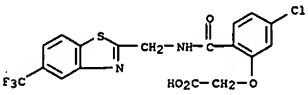


RN 314297-81-9 CAPLUS
CN Acetic acid, [5-fluoro-2-[[[(5-(trifluoromethyl)-2-benzothiazolyl]methyl]amino]carbonyl]phenoxy]- (9CI) (CA INDEX NAME)

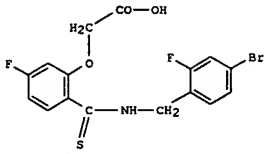


RN 314297-82-0 CAPLUS
CN Acetic acid, [5-chloro-2-[[[(5-(trifluoromethyl)-2-benzothiazolyl]methyl]amino]carbonyl]phenoxy]- (9CI) (CA INDEX NAME)



IT 314298-38-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(design and synthesis of (arylcarbamoylphenoxy)acetic acid inhibitors of aldose reductase for treatment of chronic diabetic complications)
RN 314298-38-9 CAPLUS

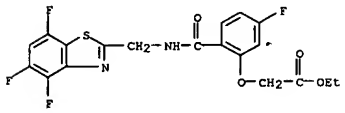
L8 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:819180 CAPLUS
DOCUMENT NUMBER: 141:374428
TITLE: Design and synthesis of highly potent and selective (2-arylcarbamoyl-phenoxy)-acetic acid inhibitors of aldose reductase for treatment of chronic diabetic complications
AUTHOR(S): Van Zandt, Michael C.; Sibley, Evelyn O.; McCann, Erin
E.; Combs, Kerry J.; Flam, Brenda; Sawicki, Diane R.; Sabetta, Al; Carrington, Anne; Sredy, Janet; Howard, Eduardo; Mitschler, Andre; Podjarny, Alberto D.
CORPORATE SOURCE: The Institute for Diabetes Discovery, LLC, Branford, CT, 06405, USA
SOURCE: Bioorganic & Medicinal Chemistry (2004), 12(21), 5661-5675
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:374428
GI



I

AB Recent efforts to identify treatments for chronic diabetic complications have resulted in the discovery of a novel series of highly potent and selective (2-arylcarbamoyl-phenoxy)-acetic acid aldose reductase inhibitors. The compound class features a core template that utilizes an intramol. hydrogen bond to position the key structural elements of the pharmacophore in a conformation, which promotes a high binding affinity. The lead candidate, I, 5-fluoro-2-(4-bromo-2-fluoro-benzylthiocarbamoyl)-phenoxyacetic acid, inhibits aldose reductase with an IC50 of 30 nM, while being 1100 times less active against aldehyde reductase, a related enzyme involved in the detoxification of reactive aldehydes. In addition, I lowers nerve sorbitol levels with an ED50 of 31 mg/kg/d po in the 4-day STZ-induced diabetic rat model.
IT 314297-79-5P 314297-80-8P 314297-81-9P
314297-82-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(design and synthesis of (arylcarbamoylphenoxy)acetic acid inhibitors of aldose reductase for treatment of chronic diabetic complications)
RN 314297-79-5 CAPLUS
CN Acetic acid, [5-fluoro-2-[[[(4,5,7-trifluoro-2-

L8 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN Acetic acid, [5-fluoro-2-[[[(4,5,7-trifluoro-2-benzothiazolyl]methyl]amino]carbonyl]phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS
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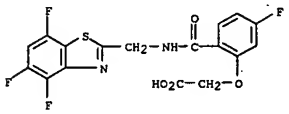
L8 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:583377 CAPLUS
DOCUMENT NUMBER: 142:214214
TITLE: The crystallographic structure of the aldose reductase-IDD552 complex shows direct proton donation from tyrosine 48
AUTHOR(S): Ruiz, Federico; Hazemann, Isabelle; Mitschler, Andre; Joachimiak, Andrzejj; Schneider, Thomas; Karplus, Martin; Podjarny, Alberto
CORPORATE SOURCE: IGBMC, CNRS INSERM ULP, UPR de Biologie Structurale, Illkirch, 67404, Fr.
SOURCE: Acta Crystallographica, Section D: Biological Crystallography (2004), D60(8), 1347-1354
CODEN: ABCRE6; ISSN: 0907-4449
PUBLISHER: Blackwell Publishing Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The x-ray crystal structure of human aldose reductase (ALR2) in complex with the inhibitor IDD552 was determined using crystals obtained from two crystallization conditions with different pH values (pH 5 and 8). In both structures the charged carboxylic head of the inhibitor binds to the active site, making hydrogen-bond interactions with His110 and Tyr48 and electrostatic interactions with NADP+. There is an important difference between the two structures: the observation of a double conformation of the carboxylic acid moiety of the inhibitor at pH 8, with one water mol. interacting with the main configuration. This is the first time that a water mol. has been observed deep inside the ALR2 active site. Furthermore, in the configuration with the lower occupancy factor the difference electron-d. map shows a clear peak (2.5σ) for the H atom in the hydrogen bond between the inhibitor's carboxylic acid and the Tyr48 side-chain O atom. The position of this peak implies that this H atom is shared between both O atoms, indicating possible direct proton transfer from this residue to the inhibitor. This fact agrees with the model of the catalytic mechanism, in which the proton is donated by the Tyr48 hydroxyl to the substrate. These observations are useful both in drug design and in understanding the ALR2 mechanism.

IT 314297-79-5D, IDD 552, complex with aldose reductase
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(crystallog. structure of aldose reductase-IDD552 complex shows direct proton donation from tyrosine 48)

RN 314297-79-5 CAPLUS
CN Acetic acid, [5-fluoro-2-[[[(4,5,7-trifluoro-2-benzothiazolyl)methyl]amino]carbonyl]phenoxy]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS
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L8 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

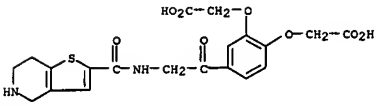
L8 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:315488 CAPLUS
DOCUMENT NUMBER: 135:116938
TITLE: Thromboxane A2 synthase inhibitor enhanced antithrombotic efficacy of GPIIb-IIIa receptor antagonist without increasing bleeding
AUTHOR(S): Kawano, K.-i.; Hokamura, K.; Kondo, K.; Ikeda, Y.; Suzuki, Y.; Umemura, K.
CORPORATE SOURCE: Department of Pharmacology, Hamamatsu University School of Medicine, Hamamatsu, 431-3192, Japan
SOURCE: European Journal of Pharmacology (2001), 417(3), 217-222
CODEN: EJPHAZ; ISSN: 0014-2999
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The advantage of platelet integrin GPIIb-IIIa receptor antagonists in the prevention of thrombotic occlusion was clearly proven in patients who underwent interventional treatment of the coronary artery, but its value in cerebral ischemia is still under investigation. The expectation of intracranial hemorrhage on strong inhibition of platelet function restricts its application in cerebral ischemia. To minimize bleeding while keeping antithrombotic activity, we have tried to find an appropriate approach using a combination of platelet integrin GPIIb-IIIa receptor antagonist and some other antithrombotic agents. The time to thrombotic occlusion was measured using a photothrombotic occlusion model of guinea pig middle cerebral artery. A platelet integrin GPIIb-IIIa receptor antagonist, ME3277 (sodium hydrogen [4-[(4,5,6,7-tetrahydrothieno [3,2-c] pyridin-2-yl) carbonylamino] acetyl-o-phenylene] dioxydiacetate), delayed occlusion time from 7.3 min in vehicle to 15.0, 20.6 and 25.9 min (P<0.05) at 0.1, 0.3 and 1 mg/kg, resp. ME3277 profoundly inhibited ex vivo platelet aggregation and the highest dose of ME3277 prolonged (3.5 folds, P<0.01) the bleeding time measured in the hind paw. A thromboxane A2 synthase inhibitor, sodium ozagrel, significantly delayed occlusion time to 19.5 min at 30 mg/kg (P<0.05) while it did not affect bleeding time or platelet aggregation. ME3277 (0.1 mg/kg) in combination with 10 mg/kg sodium ozagrel synergistically delayed occlusion time (sodium ozagrel alone; 7.9 min, combination; 26.1 min, P<0.05 vs. ME3277 alone). Sodium ozagrel did not affect ex vivo platelet aggregation or bleeding time when combined with 0.1 mg/kg of ME3277. This synergy was cancelled by combination with 30 mg/kg aspirin (14.7 min). A thromboxane A2 receptor antagonist, vapiprost (0.1 mg/kg), did not enhance the antithrombotic efficacy of ME3277. These results imply that local prostacyclin production enhances the in vivo antithrombotic effect of the platelet integrin GPIIb-IIIa receptor antagonist. Therefore, the thromboxane A2 synthase inhibitor allowed a reduction in the dose level of the platelet integrin GPIIb-IIIa receptor antagonist for cerebral thrombosis, which resulted in a reduced risk of bleeding.

IT 165948-72-1, ME3277
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)
(thromboxane A2 synthase inhibitor enhanced antithrombotic efficacy of GPIIb-IIIa receptor antagonist without increasing bleeding)

RN 165948-72-1 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L8 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L8 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

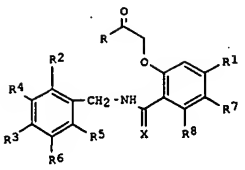
ACCESSION NUMBER: 2001:12407 CAPLUS
DOCUMENT NUMBER: 134:71392
TITLE: Preparation and effect of substituted phenoxyacetic acids in complications arising from diabetes mellitus
INVENTOR(S): Van Zandt, Michael C.
PATENT ASSIGNEE(S): The Institutes for Pharmaceutical Discovery, Llc, USA
SOURCE: PCT Int. Appl., 144 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001000566	A2	20010104	WO 2000-US17377	20000623
WO 2001000566	A3	20020207		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2385798	AA	20010104	CA 2000-2385798	20000623
BR 2000011928	A	20020409	BR 2000-11928	20000623
EP 1198451	A2	20020424	EP 2000-944834	20000623
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
US 6420426	B1	20020716	US 2000-603817	20000623
JP 2003503381	T2	20030128	JP 2001-506979	20000623
EE 200100708	A	20030217	EE 2001-708	20000623
NZ 516290	A	20040326	NZ 2000-516290	20000623
NO 2001006272	A	20020117	NO 2001-6272	20011220
ZA 2002000300	A	20030613	ZA 2002-300	20020114
BG 106351	A	20020930	BG 2002-106351	20020125
US 2003036558	A1	20030220	US 2002-195964	20020716
US 2005239849	A1	20051027	US 2003-662135	20030912

PRIORITY APPLN. INFO.: US 1999-141068P P 19990625
US 2000-603817 A3 20000623
WO 2000-US17377 W 20000623
US 2002-195964 B1 20020716

OTHER SOURCE(S): MARPAT 134:71392
GI

L8 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

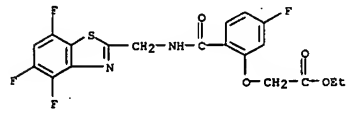


I

AB Disclosed are substituted phenoxyacetic acids [I; R = OH, OCH2CH3, C6H5CH2O, (CH3)2CHCH2CH2O, CH3(CH2)7O, CH3(CH2)3; R1 = H, Cl, F, Br, CH3O, CH3, NO2, CH3S, CF3O, CH3SO2; R2 = F, H; R3 = Br, H, Cl, CH3O, CF3O, CH3; R4 = H, F, CF3, NO2, CH3O, Cl; R5 = H, F; R6 = H, F, CF3, CH3O; R7 = H, CH3, CF3O, NH2, F; R8 = H, F; X = O, S; etc] useful in the treatment of chronic complications arising from diabetes mellitus. Also disclosed are pharmaceutical compns. containing title compds. I, alone or in combination with other therapeutic agents, and methods of treatment employing the compds. and pharmaceutical compns., as well as methods for their synthesis. The pharmaceutical composition contains angiotensin converting enzyme inhibitor(benazepril, captopril, delapril, etc). Thus, title compound I (R1 = Cl; R = OH; X = O; R4 = NO2; R2, R3, R5, R6, R7, R8 each = H) was prepared and tested.

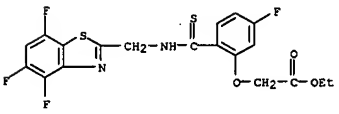
IT 314298-38-9P 314298-39-0P
RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation and effect of substituted phenoxyacetic acids in complications arising from diabetes mellitus)

RN 314298-38-9 CAPLUS
CN Acetic acid, [5-fluoro-2-[[[(4,5,7-trifluoro-2-benzothiazolyl)methyl]amino]carbonyl]phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)



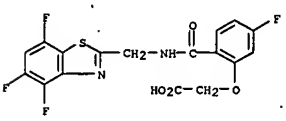
RN 314298-39-0 CAPLUS
CN Acetic acid, [5-fluoro-2-[thioxo[[(4,5,7-trifluoro-2-benzothiazolyl)methyl]amino]methyl]phenoxy]-, ethyl ester (9CI) (CA INDEX

L8 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
NAME)

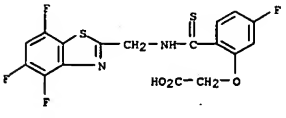


IT 314297-79-5P 314297-80-8P 314297-81-9P
314297-82-0P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and effect of substituted phenoxyacetic acids in complications arising from diabetes mellitus)

RN 314297-79-5 CAPLUS
CN Acetic acid, [5-fluoro-2-[[[(4,5,7-trifluoro-2-benzothiazolyl)methyl]amino]carbonyl]phenoxy]- (9CI) (CA INDEX NAME)

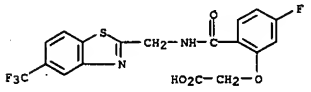


RN 314297-80-8 CAPLUS
CN Acetic acid, [5-fluoro-2-[thioxo[[(4,5,7-trifluoro-2-benzothiazolyl)methyl]amino]methyl]phenoxy]- (9CI) (CA INDEX NAME)

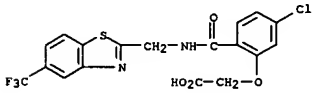


RN 314297-81-9 CAPLUS
CN Acetic acid, [5-fluoro-2-[[[[5-(trifluoromethyl)-2-benzothiazolyl]methyl]amino]carbonyl]phenoxy]- (9CI) (CA INDEX NAME)

L8 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 314297-82-0 CAPLUS
CN Acetic acid, [5-chloro-2-[[[[5-(trifluoromethyl)-2-benzothiazolyl]methyl]amino]carbonyl]phenoxy]- (9CI) (CA INDEX NAME)



L8 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

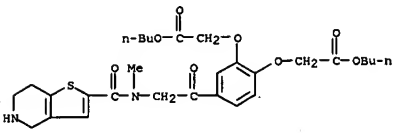
ACCESSION NUMBER: 2000:779756 CAPLUS
DOCUMENT NUMBER: 134:80492
TITLE: Polarized efflux of mono- and diacid metabolites of ME3229, an ester-type prodrug of a glycoprotein IIb/IIIa receptor antagonist, in rat small intestine
AUTHOR(S): Okudaira, Noriko; Komiya, Izumi; Sugiyama, Yuichi
CORPORATE SOURCE: Pharmaceutical Research Center, Meiji Seika Kaisha, Ltd., Yokohama, Japan
SOURCE: Journal of Pharmacology and Experimental Therapeutics (2000), 295(2), 717-723
CODEN: JPETAB; ISSN: 0022-3565
PUBLISHER: American Society for Pharmacology and Experimental Therapeutics
DOCUMENT TYPE: Journal
LANGUAGE: English

AB ME3229 is an ester-type prodrug of a glycoprotein IIb/IIIa receptor antagonist ME3277. In our previous study, it was shown that only a small part of the drug taken up into the enterocytes reached the mesenteric vein, mainly due to transporter-mediated efflux of its hydrolyzed metabolites formed in the cells. To characterize the efflux transport system for the metabolites, the transport of the diacid metabolite ME3277 and the monoacid metabolites PM-10 and PM-11 were studied. ME3277 and PM-10 were preferentially transported in the serosal-to-mucosal direction across the rat small intestine in the presence of glucose. Permeability of ME3277 across monolayer of Caco-2 cells with P-glycoprotein (P-gp) and indomethacin-sensitive efflux pump expression did not show any directionality and verapamil, an inhibitor of P-gp, and indomethacin did not affect the permeability of ME3277 across rat intestinal tissue. Directional transport was not site specific and was observed in the Eisai hyperbilirubinemic rat whose canalicular multispecific organic anion transporter/multidrug resistance-associated protein (cMOAT/MRP2) is hereditarily defective as well as in normal rats. The efflux transport of ME3277 was inhibited by 1-naphthol, 1-chloro-2,4-dinitrobenzene, and sulfobromophthalein, and efflux of ME3277 and monoacid metabolites from intestinal tissue preloaded with ME3229 fell in the presence of 1-naphthol and sulfobromophthalein. These results demonstrate that mono- and diacid metabolites of ME3229 were pumped out into the gut lumen by an energy-dependent transport system located on the mucosal membrane of intestinal tissue and distinct from either P-gp, indomethacin-sensitive efflux pump or canalicular multispecific organic anion transporter/MRP2. An inhibition study suggested that this unknown transporter has a substrate specificity similar to that of MRP transporter families.

IT 316831-57-9, EF 5139
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(effect of EF5139 on transport of ME3277 from mucosal to serosal surface of small intestine)

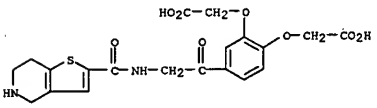
RN 316831-57-9 CAPLUS
CN Acetic acid, 2,2'-[[4-[[methyl[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis-, dibutyl ester (9CI)
(CA INDEX NAME)

L8 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

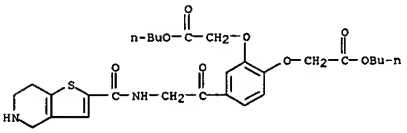


IT 165948-72-1, ME3277 165949-40-6, ME 3229
207463-37-4 207463-42-1
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(polarized efflux of mono- and diacid metabolites of ME3229 in small intestine)

RN 165948-72-1 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis- (9CI) (CA INDEX NAME)

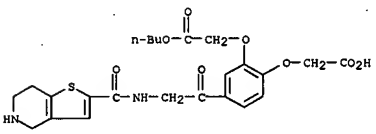


RN 165949-40-6 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis-, dibutyl ester (9CI)
(CA INDEX NAME)

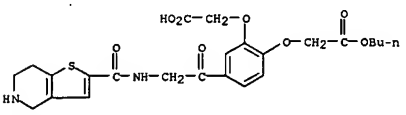


RN 207463-37-4 CAPLUS
CN Acetic acid, [2-(2-butoxy-2-oxoethoxy)-4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]- (9CI) (CA INDEX NAME)

L8 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 207463-42-1 CAPLUS
CN Acetic acid, [2-(2-butoxy-2-oxoethoxy)-5-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

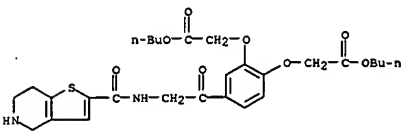
ACCESSION NUMBER: 2000:536330 CAPLUS
DOCUMENT NUMBER: 134:157153
TITLE: A study of the intestinal absorption of an ester-type prodrug, ME3229, in rats: active efflux transport as a cause of poor bioavailability of the active drug
AUTHOR(S): Okudaira, Noriko; Tatebayashi, Tomoko; Speirs, Graham C.; Komiya, Izumi; Sugiyama, Yuichi
CORPORATE SOURCE: Pharmaceutical Research Center, Meiji Seika Kaisha, Ltd., Yokohama, Japan
SOURCE: Journal of Pharmacology and Experimental Therapeutics (2000), 294(2), 580-587
CODEN: JPETAB; ISSN: 0022-3565
PUBLISHER: American Society for Pharmacology and Experimental Therapeutics
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The intestinal absorption of a prodrug is affected by a number of factors, such as its membrane permeability, stability in the gut lumen, and conversion to the parent drug in enterocytes. We evaluated the absorption of ME3229, an ester-type prodrug of a hydrophilic glycoprotein IIb/IIIa antagonist. Although the octanol/water distribution coefficient and permeability across a Caco-2 cell monolayer of ME3229 was high enough for us to expect good oral absorption, less than 10% of the dose was absorbed in rats. To clarify this unexpected outcome, we evaluated the rate of its disappearance from the gut lumen (Vl), its degradation in the gut lumen (Vdeg), uptake into enterocytes (Vuptake), and appearance in the mesenteric vein (V2) by using a single-pass perfusion technique in combination with an in vitro metabolism study. Our data suggested that ME3229 crossed the apical membrane and was taken up into enterocytes at a rate compatible with its lipophilicity, but that only a small fraction of the metabolites formed in enterocytes reached the mesenteric vein, primarily attributable to efflux into the intestinal lumen. Transport of the main metabolite across rat intestinal tissue mounted on an Ussing chamber suggested that an active efflux system pumped out any ionic metabolite(s) present.

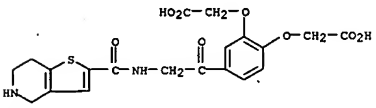
IT 165949-40-6, ME 3229
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(intestinal absorption of prodrug, ME3229, in rats)

RN 165949-40-6 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis-, dibutyl ester (9CI)
(CA INDEX NAME)

L8 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

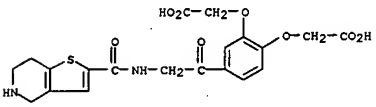


IT 165948-72-1, ME3277
RL: BPR (Biological process); BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative); PROC (Process)
(intestinal absorption of prodrug, ME3229, in rats)
RN 165948-72-1 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



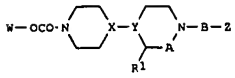
REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:438304 CAPLUS
DOCUMENT NUMBER: 133:305420
TITLE: ME3277, a GPIIb/IIIa antagonist, reduces cerebral infarction without enhancing intracranial hemorrhage in photothrombotic occlusion of rabbit middle cerebral artery
AUTHOR(S): Kawano, Ken-Ichi; Fujishima, Kazuyuki; Ikeda, Yasuhiko; Kondo, Kazunao; Umemura, Kazuo
CORPORATE SOURCE: Department of Pharmacology, Hamamatsu University School of Medicine, Hamamatsu, Japan
SOURCE: Journal of Cerebral Blood Flow and Metabolism (2000), 20(6), 988-997
CODEN: JCBMDN; ISSN: 0271-678X
PUBLISHER: Lippincott Williams & Wilkins
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A rabbit focal thrombotic occlusion model of the middle cerebral artery was established by creating a photochem. reaction between green light and Rose Bengal. Hemorrhagic transformation was common in the area of cerebral infarction. In this model, the effect of the glycoprotein IIb/IIIa (GPIIb/IIIa) antagonist ME3277 (0.15 mg/kg bolus plus 0.125 mg/kg/h; 0.3 mg/kg plus 0.25 mg/kg/h; or 0.6 mg/kg plus 0.5 mg/kg/h), aspirin (20 mg/kg) and sodium ozagrel (thromboxane A2 synthase inhibitor, 1 mg/kg plus 2 mg/kg/h) were evaluated. The drugs were given i.v. for 24 h, starting 30 min after the photochem. reaction. Aspirin inhibited the platelet aggregation induced ex vivo by arachidonic acid and collagen but not that by ADP, while sodium ozagrel inhibited only the arachidonic acid-induced aggregation. ME3277 dose-dependently inhibited the platelet aggregation elicited by all the inducers. After 24 h of middle cerebral artery occlusion, infarct volume was reduced by aspirin and each dose of ME3277. These agents improved neurol. deficits, with ME3277 being more potent than aspirin. Sodium ozagrel did not alter the infarct volume or neurol. deficits. None of the drugs worsened hemorrhage volume despite increasing bleeding time (2-3 fold) in the skin. In this model, the occluded artery was spontaneously rechanneled and rethrombosed frequently.
One mechanism by which the antiplatelet agents reduced infarct volume was by inhibition of rethrombosis of the artery. These results suggest that treatment with a GPIIb/IIIa antagonist is a useful intervention for acute cerebral infarction.
IT 165948-72-1, ME 3277
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(glycoprotein IIb/IIIa antagonist ME3277 reduction of cerebral artery infarction without enhancing intracranial hemorrhage)
RN 165948-72-1 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis- (9CI) (CA INDEX NAME)

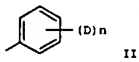
L8 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:672794 CAPLUS
DOCUMENT NUMBER: 131:286539
TITLE: Preparation of nitrogen-containing heterocyclic compounds as platelet aggregation inhibitors
INVENTOR(S): Ota, Kazumi; Kobayashi, Kazuko; Miura, Tomoaki; Imai, Takahiro; Aizawa, Kazumasa; Suzuki, Hisahi; Ohuchi, Shokichi; Katano, Kiyoaki; Ando, Takashi
PATENT ASSIGNEE(S): Meiji Seika Kaisha, Ltd., Japan
SOURCE: PCT Int. Appl., 87 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9952894	A1	19991021	WO 1998-JP2641	19980616
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9876757	A1	19991101	AU 1998-76757	19980616
EP 1070712	A1	20010124	EP 1998-924636	19980616
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 6472397	B1	20021029	US 2000-647849	20001103
PRIORITY APPLN. INFO.:			JP 1998-97051	A 19980409
			WO 1998-JP2641	W 19980616

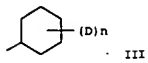
OTHER SOURCE(S): MARPAT 131:286539
GI



I



II



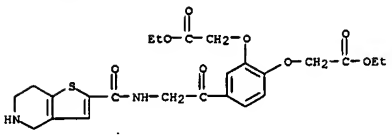
III

AB Title compds. I (A = CH2, CO; B = (CH2)k, (CH2)mCO; X, Y are different from each other and each represents N or CH; W represents a group which can be eliminated under physiol. conditions; Z = II, III; D = V(CH2)pCOOR; V = O or bond; R, R1 = H, alkyl; k = 1-4; m = 0-3; n = 1-3; p = 1-4) and their pharmacol. acceptable salts, useful as platelet aggregation inhibitors and for the treatment of thrombosis, are prepared Thus, reaction of Et 4-[[2-oxo-4-(piperidin-4-yl)piperazin-1-yl]acetyl]phenoxyacetate dihydrochloride with chloromethyl chloroformate in CH2Cl2 in the presence of Et3N gave Et 4-[[4-(1-chloromethoxycarbonylpiperidin-4-yl)-2-oxopiperazin-1-yl]acetyl]phenoxyacetate, reaction of which with AcOH in DMF in the presence of K2CO3 gave Et 4-[[4-(1-acetoxymethoxycarbonylpiperidin-4-yl)-2-oxopiperazin-1-yl]acetyl]phenoxyacetate (IV). IV had good bioavailability with 36.9% B.A. in rats.

IT 246024-19-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of nitrogen-containing heterocyclic compds. as platelet aggregation inhibitors)

RN 246024-19-1 CAPLUS

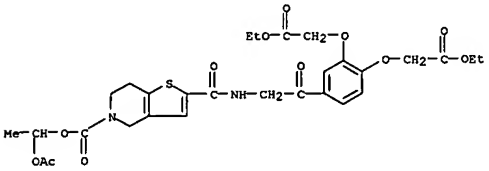
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis-, diethyl ester (9CI) (CA INDEX NAME)



IT 246024-20-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of nitrogen-containing heterocyclic compds. as platelet aggregation inhibitors)

RN 246024-20-4 CAPLUS

CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[3,4-bis(2-ethoxy-2-oxoethoxy)phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1-(acetyloxy)ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

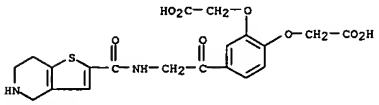
ACCESSION NUMBER: 1999:466657 CAPLUS
DOCUMENT NUMBER: 131:208831
TITLE: Superiority of platelet integrin GPIIb-IIIa receptor antagonist over aspirin in preventing cyclic flow reductions in the guinea pig middle cerebral artery
AUTHOR(S): Kawano, Ken-Ichi; Ikeda, Yasuhiko; Kondo, Kazunao; Umemura, Kazuo
CORPORATE SOURCE: Department of Pharmacology, Hamamatsu University School of Medicine, Hamamatsu, 431-3192, Japan
SOURCE: European Journal of Pharmacology (1999), 374(3), 377-385
CODEN: EJPHAZ; ISSN: 0014-2999
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB We established a photothrombotic occlusion model in the guinea pig middle cerebral artery. In this model, the middle cerebral artery was recanalized within 10 to 20 min after thrombotic occlusion, with subsequent cyclic flow redns. Cyclic flow redns. in the middle cerebral artery are expected to manage cerebral infarction by modulating arterial patency. Therefore, we evaluated the effect of several antiplatelet agents on the frequency of cyclic flow redns. and subsequent cerebral infarction using this model. A platelet integrin GPIIb-IIIa receptor antagonist, ME3277 (sodium hydrogen [4-[(4,5,6,7-tetrahydrothieno[3,2c]pyridin-2-yl) carbonylamino] acetyl-o-phenylene] dioxydiacetate, 0.3, 1 and 3 mg/kg i.v.) dose-dependently inhibited the ex vivo platelet aggregation induced by ADP (5 μM), collagen (0.8 and 20 μg/mL) and arachidonic acid (100 μM). While the same doses of ME3277 reduced the frequency of the cyclic flow redns. and increased the total patency time of the middle cerebral artery, time to thrombotic occlusion was prolonged only at the highest dose, 3 mg/kg. ME3277 (0.3-3 mg/kg) significantly reduced the infarct volume and improved the neurol. deficit at 24 h. In contrast, aspirin (30 mg/kg) did not affect these variables in spite of complete inhibition of platelet aggregation induced by arachidonic acid and collagen (0.8 μg/mL). A thromboxane A2 synthetase inhibitor, sodium ozagrel, significantly increased the total patency time and reduced the infarct volume at 30 mg/kg. Inhibition of prostaglandin I2 generation could explain the effectiveness of sodium ozagrel but not aspirin in this model. These results suggest that platelet integrin GPIIb-IIIa receptor antagonists are more beneficial than aspirin for the treatment of cerebral thrombosis.

IT 165948-72-1, ME3277
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)
(platelet integrin GPIIb-IIIa receptor antagonist vs. aspirin and ozagrel in preventing cyclic flow redns. in middle cerebral artery)

RN 165948-72-1 CAPLUS

CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis- (9CI) (CA INDEX NAME)



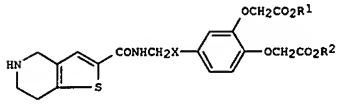
REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:236776 CAPLUS
DOCUMENT NUMBER: 129:595
TITLE: Thienopyridine derivatives and antithrombotics containing them
INVENTOR(S): Ota, Kazumi; Isomura, Yasuko; Ishikawa, Minoru; Okudaira, Noriko; Suzuki, Takashi; Aisawa, Kazumasa; Katano, Kiyoaki
PATENT ASSIGNEE(S): Meiji Seika Kaisha, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10101677	A2	19980421	JP 1996-258031	19960930
PRIORITY APPLN. INFO.:			JP 1996-258031	19960930

OTHER SOURCE(S): MARPAT 129:595
GI



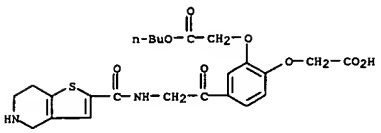
I

AB The title derivs. I (one of R1 and R2 = H, and the other = lower alkyl' X = CO, CHOH), their pharmacol. acceptable salts, or their solvates are prepared Also claimed are therapeutic agents for thrombotic diseases containing I, their salts, or their solvates. I (X = CO, R1 = Bu, R2 = H), prepared from chloroacetylcatechol with 6 steps, inhibited ADP-induced aggregation of human platelets at IC50 5.0 + 10-7M.

IT 207463-37-4P 207463-41-0P 207463-42-1P
207463-49-8P 207463-59-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of thienopyridine derivs. as antithrombotics)

RN 207463-37-4 CAPLUS
CN Acetic acid, [2-(2-butoxy-2-oxoethoxy)-4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]- (9CI) (CA INDEX NAME)

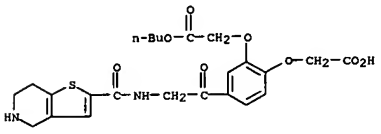
L8 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 207463-41-0 CAPLUS
CN Acetic acid, [2-(2-butoxy-2-oxoethoxy)-4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 207463-37-4
CMF C24 H28 N2 O8 S

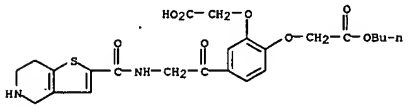


CM 2

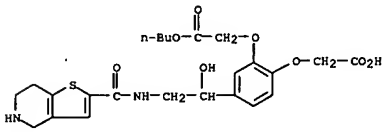
CRN 76-05-1
CMF C2 H F3 O2

RN 207463-42-1 CAPLUS
CN Acetic acid, [2-(2-butoxy-2-oxoethoxy)-5-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]- (9CI) (CA INDEX NAME)

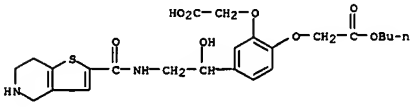
L8 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 207463-49-8 CAPLUS
CN Acetic acid, [2-(2-butoxy-2-oxoethoxy)-4-[1-hydroxy-2-[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]ethyl]phenoxy]- (9CI) (CA INDEX NAME)



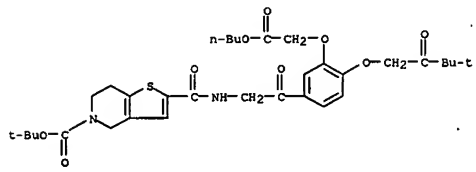
RN 207463-59-0 CAPLUS
CN Acetic acid, [2-(2-butoxy-2-oxoethoxy)-5-[1-hydroxy-2-[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]ethyl]phenoxy]- (9CI) (CA INDEX NAME)



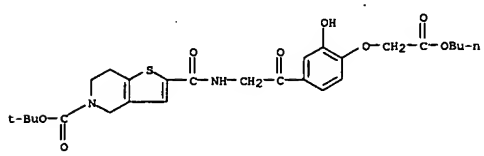
IT 207463-40-9P 207463-47-6P 207463-48-7P
207463-58-9P
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation of thienopyridine derivs. as antithrombotics)

RN 207463-40-9 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[3-(2-butoxy-2-oxoethoxy)-4-(3,3-dimethyl-2-oxobutoxy)phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

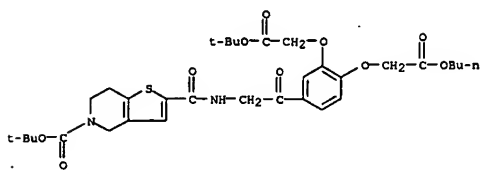
L8 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 207463-47-6 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[4-(2-butoxy-2-oxoethoxy)-3-hydroxyphenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

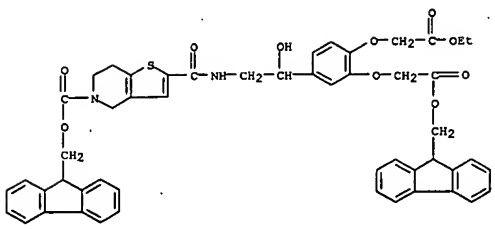


RN 207463-48-7 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[4-(2-butoxy-2-oxoethoxy)-3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 207463-58-9 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[4-(2-ethoxy-2-oxoethoxy)-3-[2-(9H-fluoren-9-ylmethoxy)-2-oxoethoxy]phenyl]-2-hydroxyethyl]amino]carbonyl]-6,7-dihydro-, 9H-fluoren-9-ylmethyl ester (9CI) (CA INDEX NAME)

L8 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L8 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:679074 CAPLUS
DOCUMENT NUMBER: 127:307400
TITLE: preparation of novel heterocyclic compounds having blood platelet aggregation inhibitory activity
INVENTOR(S): Yamamoto, Takehiro; Miura, Tomoaki; Isomura, Yasuko; Tadauchi, Kaori; Iida, Hiroyuki; Ouchi, Shokichi; Katano, Kiyoaki
PATENT ASSIGNEE(S): Meiji Seika Kaisha, Ltd., Japan
SOURCE: PCT Int. Appl., 82 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9736887	A1	19971009	WO 1997-JP1106	19970331
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9720442	A1	19971022	AU 1997-20442	19970331
EP 897920	A1	19990224	EP 1997-908555	19970331
R: BE, DE, ES, FR, GB, IT				
PRIORITY APPLN. INFO.:			JP 1996-78004 A	19960329
			WO 1997-JP1106 W	19970331

OTHER SOURCE(S): MARPAT 127:307400
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. [I; R1, R2 = H, (un)substituted lower alkyl; R3 = H, (un)substituted lower alkyl or Ph; R4 = aminomethyl, etc.; G, H, I, J = N, O, S, CO, etc.; K, L = H2, O; B = COCHR7, CONR7; R7 = H, lower alkyl; D = CO, CHOH, etc.; E = H, CH2Y; Y = pyridyloxy, pyridylalkyl, etc.; F = Z(CH2)qCO2R8, CH:CR9CO2R8; Z = O, bond; R8, R9 = H, lower alkyl, etc.; q = 1-4; p = 1-2] having platelet aggregation inhibitory effects, and pharmacol. acceptable salts and solvates thereof, are prepared Medicinal compns. containing I are utilizable as blood platelet aggregation inhibitors that are excellent in blood platelet aggregation inhibitory activities, do not cause hemorrhage and side effects due to a failure in the selectivity for inhibitory actions, and are also efficacious against vascular lesions such as vascular spasm. Thus, imidazole derivative (V; R5 = R6 = tert-Bu) (preparation given) was treated with anisole and CF3CO2H to give the title

L8 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

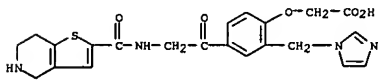
compd. V.CF3CO2H (R5 = R6 = H); which showed IC50 of 4.4 μM against human blood platelet aggregation.

IT 197237-35-7P 197237-37-9P 197237-39-1P
197237-41-5P 197237-43-7P 197237-50-6P
197237-53-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of novel heterocyclic compds. having blood platelet aggregation inhibitory activity)

RN 197237-35-7 CAPLUS
CN Acetic acid, [2-(1H-imidazol-1-ylmethyl)-4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 197237-34-6
CMF C22 H22 N4 O5 S



CM 2

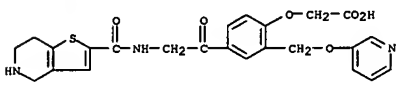
CRN 76-05-1
CMF C2 H F3 O2

RN 197237-37-9 CAPLUS
CN Acetic acid, [2-[(3-pyridinyloxy)methyl]-4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 197237-36-8
CMF C24 H23 N3 O6 S

L8 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



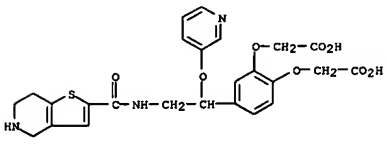
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 197237-39-1 CAPLUS
CN Acetic acid, 2,2'-[[4-[1-(3-pyridinyloxy)-2-[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]ethyl]-1,2-phenylene]bis(oxy)]bis-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 197237-38-0
CMF C25 H25 N3 O8 S



CM 2

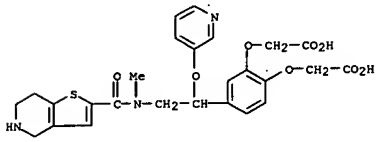
CRN 76-05-1
CMF C2 H F3 O2

RN 197237-41-5 CAPLUS

L8 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN Acetic acid, 2,2'-[[4-[1-(3-pyridinyloxy)-2-[methyl[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]ethyl]-1,2-phenylene]bis(oxy)]bis-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 197237-40-4
CMF C26 H27 N3 O8 S



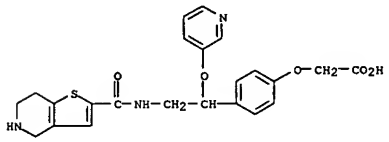
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 197237-43-7 CAPLUS
CN Acetic acid, [4-[1-(3-pyridinyloxy)-2-[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]ethyl]phenoxy]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

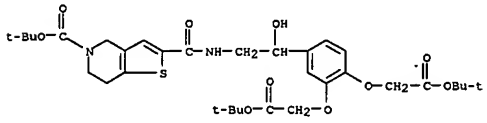
CRN 197237-42-6
CMF C23 H23 N3 O5 S



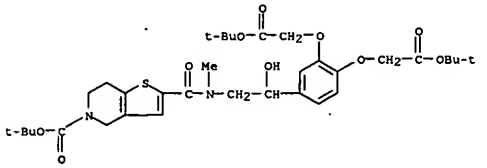
L8 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CRN 76-05-1
CMF C2 H F3 O2

IT 165948-12-9 197238-28-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of novel heterocyclic compds. having blood platelet aggregation
inhibitory activity)
RN 165948-12-9 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[3,4-bis[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]-2-hydroxyethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 197238-28-1 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[3,4-bis[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]-2-hydroxyethyl]methylamino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

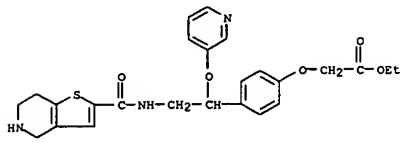


IT 197237-66-4P 197237-67-5P 197237-68-6P
197237-69-7P 197237-70-0P 197237-71-1P
197237-72-2P 197237-73-3P 197237-75-5P
197237-76-6P 197238-08-7P 197238-10-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of novel heterocyclic compds. having blood platelet aggregation

L8 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 197237-50-6 CAPLUS
CN Acetic acid, [4-[1-(3-pyridinyloxy)-2-[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]ethyl]phenoxy]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

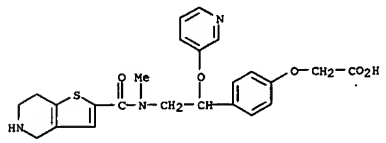


● HCl

RN 197237-53-9 CAPLUS
CN Acetic acid, [4-[2-[methyl[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]-1-(3-pyridinyloxy)ethyl]phenoxy]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

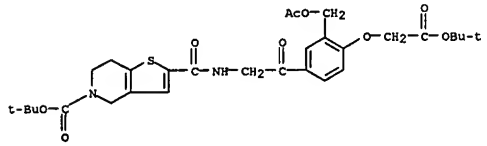
CM 1

CRN 197237-52-8
CMF C24 H25 N3 O5 S

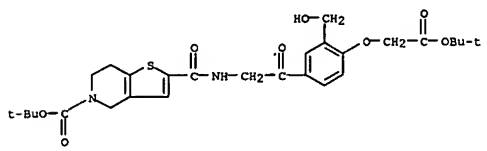


CM 2

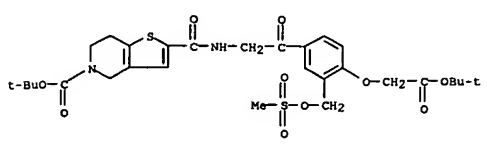
L8 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
inhibitory activity)
RN 197237-66-4 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[3-[(acetyloxy)methyl]-4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 197237-67-5 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-3-(hydroxymethyl)phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

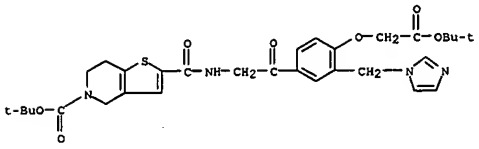


RN 197237-68-6 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-3-[[(methylsulfonyl)oxy]methyl]phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

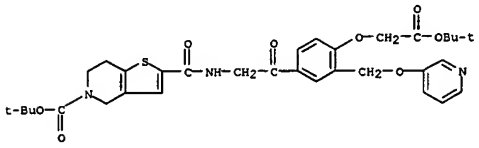


RN 197237-69-7 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-3-(1H-imidazol-1-ylmethyl)phenyl]-2-

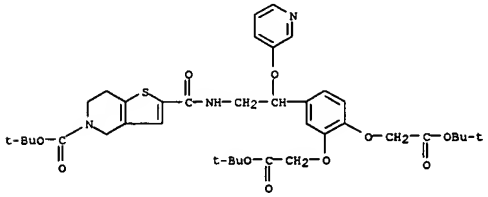
oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 197237-70-0 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-3-[(3-pyridinyloxy)methyl]phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

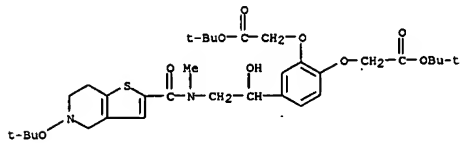


RN 197237-71-1 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[3,4-bis[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]-2-(3-pyridinyloxy)ethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

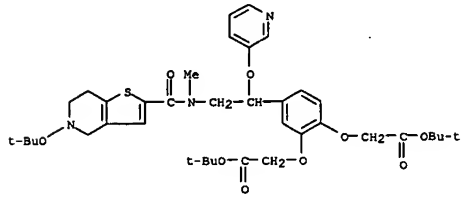


RN 197237-72-2 CAPLUS
CN Acetic acid, 2,2'-[[4-[2-[[[5-(1,1-dimethylethoxy)-4,5,6,7-

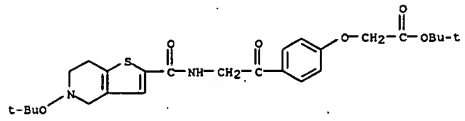
tetrahydrothieno[3,2-c]pyridin-2-yl]carbonyl]methylamino]-1-hydroxyethyl]-1,2-phenylene]bis(oxy)]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



RN 197237-73-3 CAPLUS
CN Acetic acid, 2,2'-[[4-[2-[[[5-(1,1-dimethylethoxy)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl]carbonyl]methylamino]-1-(3-pyridinyloxy)ethyl]-1,2-phenylene]bis(oxy)]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

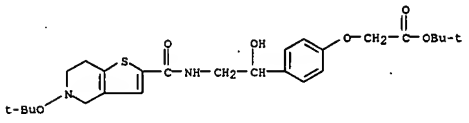


RN 197237-75-5 CAPLUS
CN Acetic acid, [4-[[[[5-(1,1-dimethylethoxy)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl]carbonyl]amino]acetyl]phenoxy]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

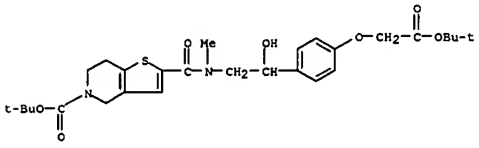


RN 197237-76-6 CAPLUS
CN Acetic acid, [4-[2-[[[5-(1,1-dimethylethoxy)-4,5,6,7-tetrahydrothieno[3,2-

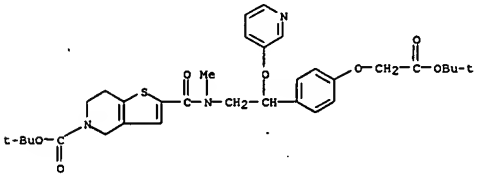
c]pyridin-2-yl]carbonyl]amino]-1-hydroxyethyl]phenoxy]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



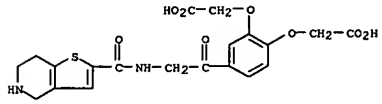
RN 197238-08-7 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]-2-hydroxyethyl]methylamino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



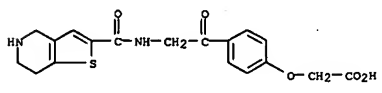
RN 197238-10-1 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]-2-(3-pyridinyloxy)ethyl]methylamino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1996:741356 CAPLUS
DOCUMENT NUMBER: 126:54462
TITLE: Tetrahydrothienopyridine derivatives as novel GPIIb/IIIa antagonists
AUTHOR(S): Katano, Kiyoaki; Shitara, Eiki; Shimizu, Masaro; Sasaki, Kazue; Miura, Tomoaki; Isomura, Yasuko; Kawaguchi, Mami; Ohuchi, Shokichi; Tsuruoka, Takashi
CORPORATE SOURCE: Pharm. Res. Cent., Meiji Seika Kaisha Ltd., Yokohama, 222, Japan
SOURCE: Bioorganic & Medicinal Chemistry Letters (1996), 6(21), 2601-2606
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The tetrahydrothienopyridine derivs. were derived from aminomethylcyclohexylcarboxylic acid as a lead moiety. Evaluation of the antiplatelet activity and receptor binding assay revealed that compound ME 3277 was a novel and potent non-peptide and non-amidinophenyl GPIIb/IIIa antagonist.
IT 165948-72-1P, ME 3277 165948-87-8P 165948-89-0P 165948-93-6P 165948-97-0P 165948-99-2P 185245-56-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis and antiplatelet activity of tetrahydrothienopyridine derivs. as GPIIb/IIIa antagonists)
RN 165948-72-1 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis- (9CI) (CA INDEX NAME)

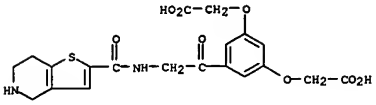


RN 165948-87-8 CAPLUS
CN Acetic acid, [4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]- (9CI) (CA INDEX NAME)

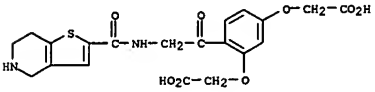


RN 165948-89-0 CAPLUS
CN Acetic acid, 2,2'-[[5-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-

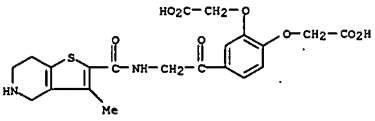
L8 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
yl)carbonyl]amino]acetyl]-1,3-phenylene]bis(oxy)]bis- (9CI) (CA INDEX NAME)



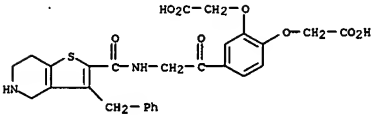
RN 165948-93-6 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,3-phenylene]bis(oxy)]bis- (9CI) (CA INDEX NAME)



RN 165948-97-0 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydro-3-methylthieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis- (9CI) (CA INDEX NAME)



RN 165948-99-2 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydro-3-(phenylmethyl)thieno[3,2-c]pyridin-2-yl]carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis- (9CI) (CA INDEX NAME)



L8 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

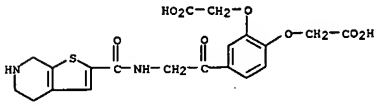
ACCESSION NUMBER: 1995:723127 CAPLUS
DOCUMENT NUMBER: 123:143870
TITLE: preparation of novel heterocyclic compounds as platelet aggregation inhibitors
INVENTOR(S): Katano, Kiyoaki; Ohuchi, Shokichi; Shitara, Eiki; Shimizu, Masaro; Yaegashi, Kazue; Miura, Tomoaki; Isomura, Yasuko; Iida, Hiroyuki; Ishikawa, Midori; et al.
PATENT ASSIGNEE(S): Meiji Seika K. K., Japan
SOURCE: PCT Int. Appl., 190 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9421599	A1	19940929	WO 1994-JP437	19940317
W: AU, CA, CN, JP, KR, NO, NZ, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2136007	AA	19940929	CA 1994-2136007	19940317
CA 2136007	C	19991214		
AU 9462638	A1	19941011	AU 1994-62638	19940317
AU 688756	B2	19980319		
EP 641770	A1	19950308	EP 1994-910038	19940317
EP 641770	B1	19980513		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1107277	A	19950823	CN 1994-190209	19940317
CN 1045084	B	19990915		
AT 166047	E	19980515	AT 1994-910038	19940317
ES 2117264	T3	19980801	ES 1994-910038	19940317
NO 9404371	A	19950113	NO 1994-4371	19941116
NO 308607	B1	20001002		
US 5594004	A	19970114	US 1995-347402	19950130
US 5698692	A	19971216	US 1996-733743	19961018
AU 9852084	A1	19980319	AU 1998-52084	19980115
AU 723180	B2	20000817		

PRIORITY APPLN. INFO.: JP 1993-57463 A 19930317
JP 1993-82145 A 19930408
JP 1993-265273 A 19931022
WO 1994-JP437 W 19940317
US 1995-347402 A3 19950130

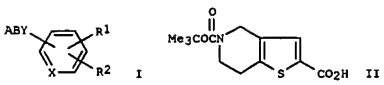
OTHER SOURCE(S): MARPAT 123:143870
GI

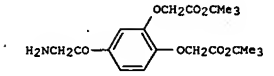
L8 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RN 185245-56-1 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis- (9CI) (CA INDEX NAME)



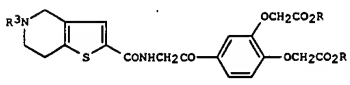
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)





III



IV

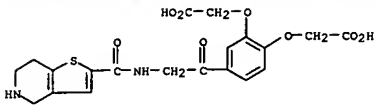
AB Heterocyclic compds. [I; A = thienopyridinyl, substituted cyclohexyl, piperidinyl, etc.; BY = CONHCH2CO, CONHCH2CH2, etc.; R1, R2 = OCH2CO2H, salts, esters, etc.; X = CH, N] are prepared A mixture of II (preparation given), (benzotriazol-1-yloxy)tris(dimethylamino)phosphonium hexafluorophosphate, and N-methylmorpholine was stirred at room temperature, III (preparation given) was added, and the mixture was stirred at room temperature to give 50.9% ester IV (R = Me3C, R3 = CO2CMe3), which was stirred with anisole and CF3CO2H at room temperature to give 97.3% salt IV.CF3CO2H (R = R3 = H) (V). V showed IC50 of 0.14 μM against ADP-induced platelet aggregation in human.

IT 165948-73-2P 165948-82-3P 165948-88-9P
165948-90-3P 165948-92-5P 165948-94-7P
165948-96-9P 165948-98-1P 165949-00-8P
165949-14-4P 165949-20-2P 165949-28-0P
165949-30-4P 165949-32-6P 165949-35-9P
165949-37-1P 165949-41-7P 165949-42-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of novel heterocyclic compds. as platelet aggregation inhibitors)

RN 165948-73-2 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 165948-72-1
CMF C20 H20 N2 O8 S



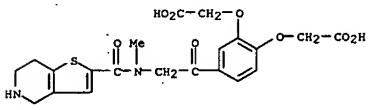
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 165948-82-3 CAPLUS
CN Acetic acid, 2,2'-[[4-[[methyl[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 165948-81-2
CMF C21 H22 N2 O8 S



CM 2

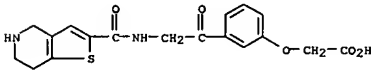
CRN 76-05-1
CMF C2 H F3 O2

RN 165948-88-9 CAPLUS
CN Acetic acid, [4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]-, mono(trifluoroacetate) (9CI) (CA

RN 165948-92-5 CAPLUS
CN Acetic acid, [3-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 165948-91-4
CMF C18 H18 N2 O5 S



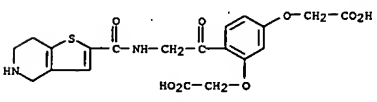
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 165948-94-7 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,3-phenylene]bis(oxy)]bis-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

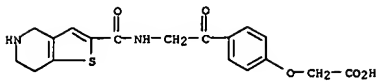
CRN 165948-93-6
CMF C20 H20 N2 O8 S



INDEX NAME)

CM 1

CRN 165948-87-8
CMF C18 H18 N2 O5 S



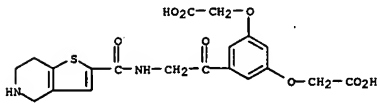
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 165948-90-3 CAPLUS
CN Acetic acid, 2,2'-[[5-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,3-phenylene]bis(oxy)]bis-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 165948-89-0
CMF C20 H20 N2 O8 S



CM 2

CRN 76-05-1
CMF C2 H F3 O2

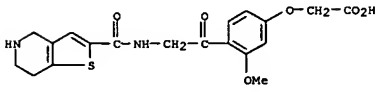
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 165948-96-9 CAPLUS
CN Acetic acid, [3-methoxy-4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 165948-95-8
CMF C19 H20 N2 O6 S



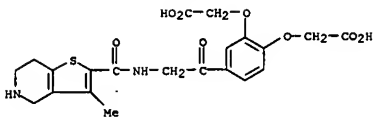
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 165948-98-1 CAPLUS
CN Acetic acid,
2,2'-[[4-[[[(4,5,6,7-tetrahydro-3-methylthieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 165948-97-0
CMF C21 H22 N2 O8 S



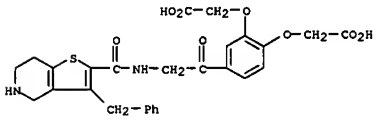
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 165949-00-8 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[[4,5,6,7-tetrahydro-3-(phenylmethyl)thieno[3,2-c]pyridin-2-yl]carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 165948-99-2
CMF C27 H26 N2 O8 S



CM 2

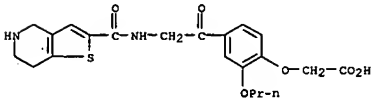
CRN 76-05-1
CMF C2 H F3 O2

CRN 76-05-1
CMF C2 H F3 O2

RN 165949-28-0 CAPLUS
CN Acetic acid, [2-propoxy-4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 165949-27-9
CMF C21 H24 N2 O6 S



CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 165949-30-4 CAPLUS
CN Acetic acid, [2-(phenylmethoxy)-4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl]carbonyl]amino]acetyl]phenoxy]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

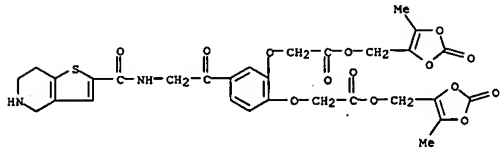
CM 1

CRN 165949-29-1
CMF C25 H24 N2 O6 S

RN 165949-14-4 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl]carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis-, bis[(5-methyl-2-oxo-1,3-dioxol-4-yl)methyl] ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 165949-13-3
CMF C30 H28 N2 O14 S



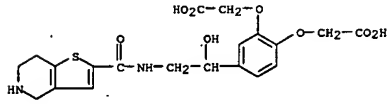
CM 2

CRN 76-05-1
CMF C2 H F3 O2

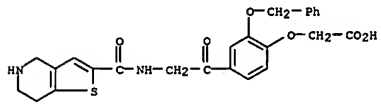
RN 165949-20-2 CAPLUS
CN Acetic acid, 2,2'-[[4-[1-hydroxy-2-[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]ethyl]-1,2-phenylene]bis(oxy)]bis-, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 165949-19-9
CMF C20 H22 N2 O8 S



CM 2



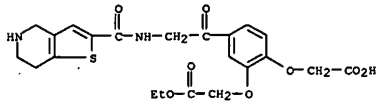
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 165949-32-6 CAPLUS
CN Acetic acid, [2-(carboxymethoxy)-5-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]-, 1-ethyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 165949-31-5
CMF C22 H24 N2 O8 S



CM 2

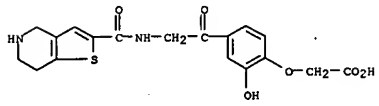
CRN 76-05-1
CMF C2 H F3 O2

RN 165949-35-9 CAPLUS
CN Acetic acid, [2-hydroxy-4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-

yl)carbonyl]amino]acetyl]phenoxy]-, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 165949-34-8
CMF C18 H18 N2 O6 S



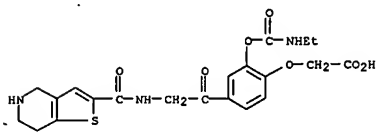
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 165949-37-1 CAPLUS
CN Acetic acid, [2-[[(ethylamino)carbonyl]oxy]-4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]phenoxy]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 165949-36-0
CMF C21 H23 N3 O7 S



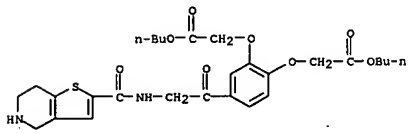
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 165949-41-7 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis-, dibutyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

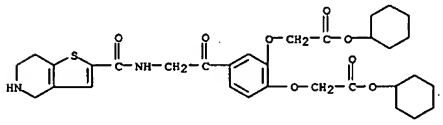
CRN 165949-40-6
CMF C28 H36 N2 O8 S



CM 2

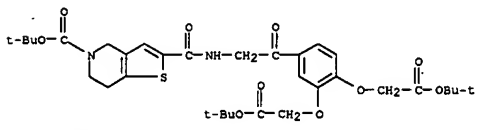
CRN 76-05-1
CMF C2 H F3 O2

RN 165949-42-8 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis-, dicyclohexyl ester (9CI) (CA INDEX NAME)

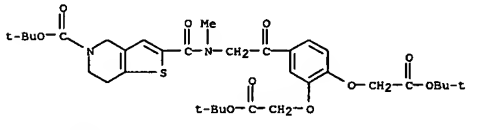


IT 165947-43-3P 165947-90-0P 165947-93-3P
165947-94-4P 165947-95-5P 165947-96-6P
165947-97-7P 165947-98-8P 165947-99-9P
165948-02-7P 165948-03-8P 165948-09-4P
165948-10-7P 165948-12-9P 165948-28-7P
165948-30-1P 165948-31-2P 165948-34-5P
165948-35-6P 165948-47-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of novel heterocyclic compds. as platelet aggregation inhibitors)

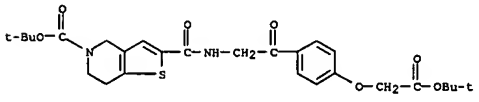
RN 165947-43-3 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[3,4-bis[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



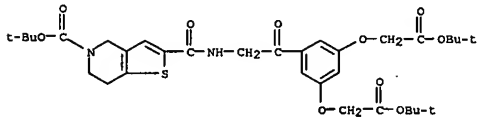
RN 165947-90-0 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[3,4-bis[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]-2-oxoethyl]methylamino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



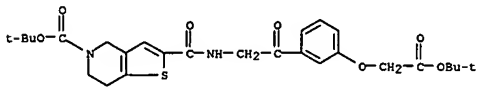
RN 165947-93-3 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



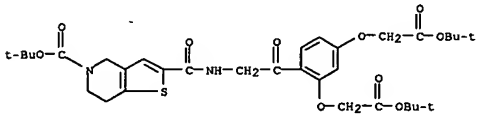
RN 165947-94-4 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[3,5-bis[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



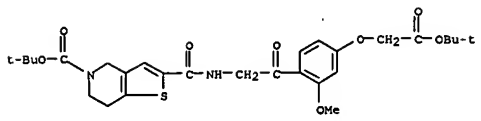
RN 165947-95-5 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



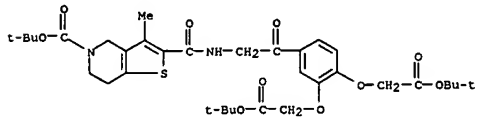
RN 165947-96-6 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[2,4-bis[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



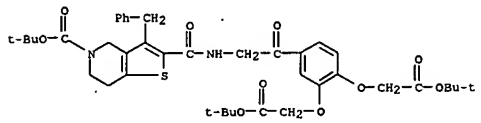
RN 165947-97-7 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-2-methoxyphenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 165947-98-8 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[3,4-bis[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-3-methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

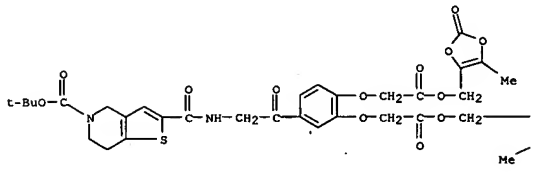


RN 165947-99-9 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[3,4-bis[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-3-(phenylmethyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



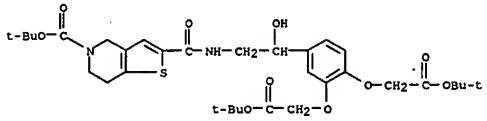
RN 165948-02-7 CAPLUS
CN Acetic acid, 2,2'-[[4-[[[[5-(1,1-dimethylethyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl]carbonyl]amino]acetyl]-1,2-phenylene]bis(oxy)]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

PAGE 1-A

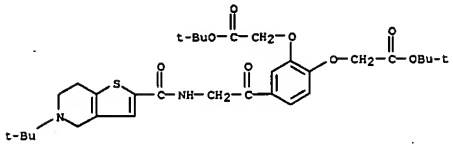


PAGE 1-B

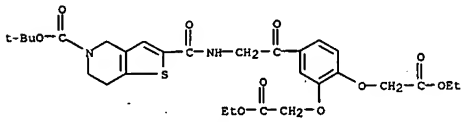
RN 165948-12-9 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[3,4-bis[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]-2-hydroxyethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



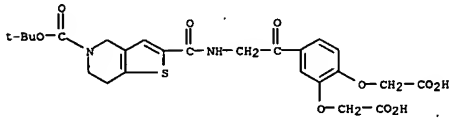
RN 165948-28-7 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-3-propoxyphenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



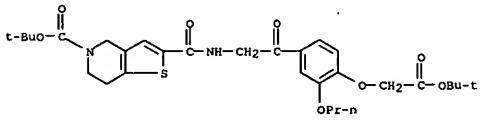
RN 165948-03-8 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[3,4-bis(2-ethoxy-2-oxoethoxy)phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



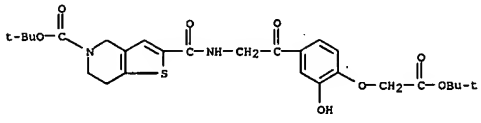
RN 165948-09-4 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[3,4-bis(carboxymethoxy)phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 5-(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



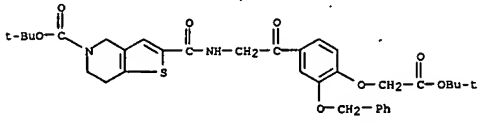
RN 165948-10-7 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[3,4-bis[2-[(5-methyl-2-oxo-1,3-dioxol-4-yl)methoxy]-2-oxoethoxy]phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



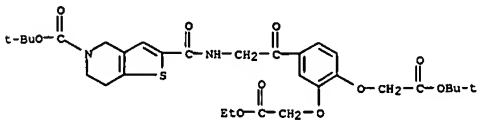
RN 165948-30-1 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-3-hydroxyphenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



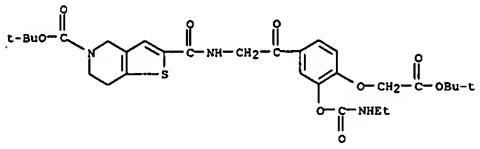
RN 165948-31-2 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-3-(phenylmethoxy)phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



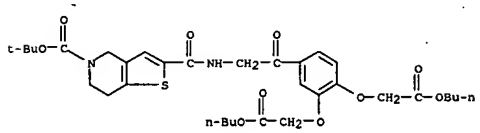
RN 165948-34-5 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-3-(2-ethoxy-2-oxoethoxy)phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 165948-35-6 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-3-[[(ethylamino)carbonyl]oxy]phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 165948-47-0 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[3,4-bis(2-butoxy-2-oxoethoxy)phenyl]-2-oxoethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



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=> fil reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                        78.49     303.22

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                           ENTRY    SESSION
CA SUBSCRIBER PRICE                                       -11.25     -11.25

FILE 'REGISTRY' ENTERED AT 12:32:27 ON 26 OCT 2006
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STRUCTURE FILE UPDATES:   25 OCT 2006  HIGHEST RN 911284-77-0
DICTIONARY FILE UPDATES:  25 OCT 2006  HIGHEST RN 911284-77-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\QUERIES\10662135.str
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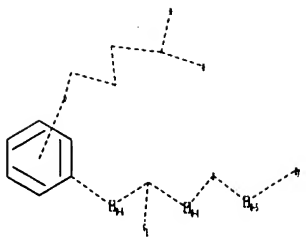
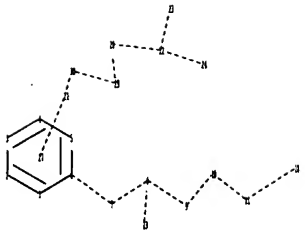




chain nodes :
7 8 9 10 11 13 18 21 22 23 24 28 29 30
ring nodes :
1 2 3 4 5 6
chain bonds :
6-7 7-8 8-9 8-13 9-10 10-11 11-18 21-30 22-24 22-23 22-28 28-29 29-30
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
6-7 7-8 8-9 8-13 9-10 10-11 11-18 21-30 22-24 22-23 22-28 28-29 29-30
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

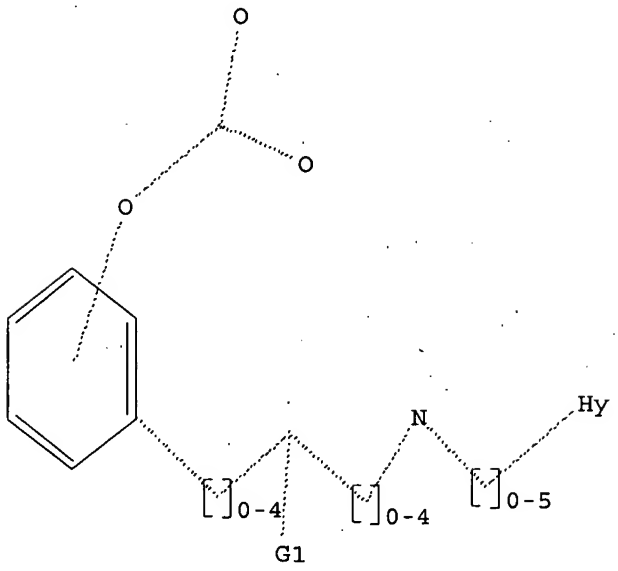
G1:O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 13:CLASS 18:Atom 21:CLASS 22:CLASS 23:CLASS 24:CLASS 27:Atom
28:CLASS 29:CLASS 30:CLASS
Generic attributes :
18:
Number of Carbon Atoms : 7 or more
Number of Hetero Atoms : 2 or more
Type of Ring System : Polycyclic

Element Count :
Node 18: Limited
O,O0
S,S1
N,N1
C,C7

L9 STRUCTURE UPLOADED

=> d
L9 HAS NO ANSWERS
L9 STR



G1 O,S,N

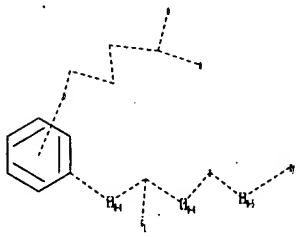
Structure attributes must be viewed using STN Express query preparation.

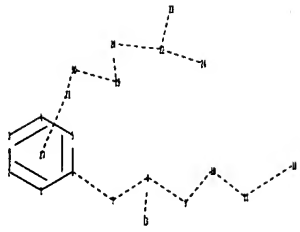
=> s l9
SAMPLE SEARCH INITIATED 12:32:48 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2057 TO ITERATE

97.2% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 38420 TO 43860
PROJECTED ANSWERS: 0 TO 0

```
L10             0 SEA SSS SAM L9

=> s l9 full
FULL SEARCH INITIATED 12:32:52 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    39731 TO ITERATE

100.0% PROCESSED    39731 ITERATIONS                                 0 ANSWERS
SEARCH TIME: 00.00.01

L11             0 SEA SSS FUL L9

=>
Uploading C:\Program Files\Stnexp\Queries\QUERIES\10662135.str
```





```
chain nodes :
7  8  9  10  11  13  18  21  22  23  24  28  29  30
ring nodes :
1  2  3  4  5  6
chain bonds :
6-7  7-8  8-9  8-13  9-10  10-11  11-18  21-30  22-24  22-23  22-28  28-29  29-30
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6
exact/norm bonds :
6-7  7-8  8-9  8-13  9-10  10-11  11-18  21-30  22-24  22-23  22-28  28-29  29-30
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6
isolated ring systems :
containing 1 :
```

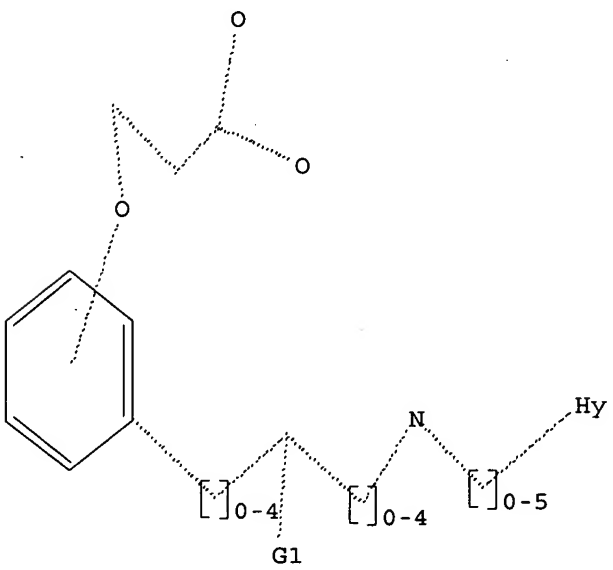
G1:O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 13:CLASS 18:Atom 21:CLASS 22:CLASS 23:CLASS 24:CLASS 27:Atom
28:CLASS 29:CLASS 30:CLASS
Generic attributes :
18:
Number of Carbon Atoms : 7 or more
Number of Hetero Atoms : 2 or more
Type of Ring System : Polycyclic

Element Count :
Node 18: Limited
O,O0
S,S1
N,N1
C,C7

L12 STRUCTURE UPLOADED

=> d
L12 HAS NO ANSWERS
L12 STR



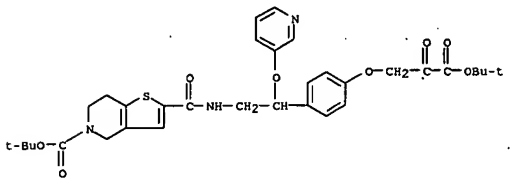
G1 O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l12

```
SAMPLE SEARCH INITIATED 12:33:27 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    29704 TO ITERATE

  6.7% PROCESSED     2000 ITERATIONS                                 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       583774 TO   604386
PROJECTED ANSWERS:               0 TO        0

L13           0 SEA SSS SAM L12

=> s l12 full
FULL SEARCH INITIATED 12:33:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   589723 TO ITERATE

 96.1% PROCESSED   567010 ITERATIONS                                 1 ANSWERS

100.0% PROCESSED   589723 ITERATIONS                                 1 ANSWERS
SEARCH TIME: 00.00.27

L14           1 SEA SSS FUL L12

=> d
```

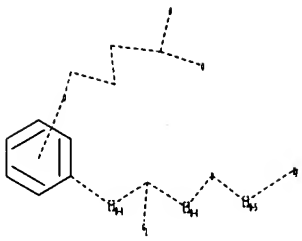
L14 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 197237-77-7 REGISTRY
ED Entered STN: 13 Nov 1997
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[[2-[4-[3-(1,1-dimethylethoxy)-2,3-dioxopropoxy]phenyl]-2-(3-pyridinyloxy)ethyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
MF C33 H39 N3 O8 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

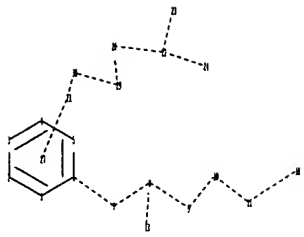


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=>
Uploading C:\Program Files\Stnexp\Queries\QUERIES\10662135.str





chain nodes :
7 8 9 10 11 13 18 21 22 23 24 28 29 30
ring nodes :
1 2 3 4 5 6
chain bonds :
6-7 7-8 8-9 8-13 9-10 10-11 11-18 21-30 22-24 22-23 22-28 28-29 29-30
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
6-7 7-8 8-9 8-13 9-10 10-11 11-18 21-30 22-24 22-23 22-28 28-29 29-30
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

G1:O,S,N

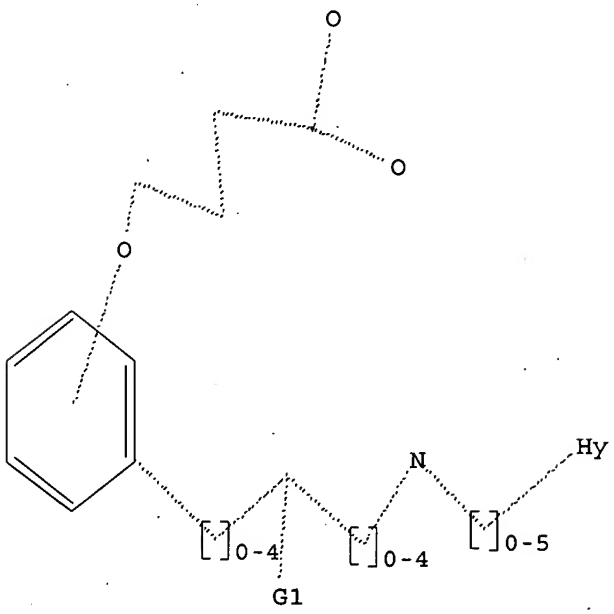
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 13:CLASS 18:Atom 21:CLASS 22:CLASS 23:CLASS 24:CLASS 27:Atom
28:CLASS 29:CLASS 30:CLASS
Generic attributes :
18:
Number of Carbon Atoms : 7 or more
Number of Hetero Atoms : 2 or more

Type of Ring System : Polycyclic

Element Count :
Node 18: Limited
O,O0
S,S1
N,N1
C,C7

L15 STRUCTURE UPLOADED

=> d
L15 HAS NO ANSWERS
L15 STR



G1 O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l15
SAMPLE SEARCH INITIATED 12:35:21 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 26736 TO ITERATE

7.5% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 524939 TO 544501
PROJECTED ANSWERS: 0 TO 0

```
L16             0 SEA SSS SAM L15

=> s l15 full
FULL SEARCH INITIATED 12:35:24 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    532752 TO ITERATE

 96.8% PROCESSED    515737 ITERATIONS                                 0 ANSWERS

100.0% PROCESSED    532752 ITERATIONS                                 0 ANSWERS
SEARCH TIME: 00.00.26

L17             0 SEA SSS FUL L15

=> log y
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    504.04     807.26

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                      0.00     -11.25

STN INTERNATIONAL LOGOFF AT 12:35:55 ON 26 OCT 2006
```

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